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1647

1204 UZWIZA 1800 2900

RAW SEQUENCE LISTING

DATE: 03/28/2002

PATENT APPLICATION: US/09/903,180B

TIME: 10:51:04

Southmeester, Tewis Southmeester, Southmeester		<110>						is, 1	Edwa	rd M							ļ.,	
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19											_				_	_		_
20				Leu	Leu	Asn		Leu	Arg	Ile	Cys		He	Val	Cys	Leu		Asn
21					_		-	•	_		~ 1		a 1	_	1			m
Ser Leu Asn Ser Arg Gly Tyr Phe Arg Lys Glu Arg Gly Ala Arg Arg			Asp	Gly	Ala	-	Lys	His	Ser	Glu	_	Arg	Glu	Arg	Thr		Thr	Tyr
23							_		_	_,		_		_	~ 1			3
24			Ser	Leu		Ser	Arg	GLY	Tyr		Arg	Lys	Glu	Arg		Ата	Arg	Arg
25									_		_	- 1	_	_		.	•••	T 1 -
26 Gly His Gly Asp Phe Gly Leu Val Ala Glu Leu Phe Asp Ser Thr Arg 27 65 70 70 75 80 28 Thr His Thr Asn Arg Lys Glu Pro Asp Met Asn Lys Val Lys Leu Phe 29 85 90 95 30 Ser Thr Val Ala His Gly Asn Lys Ser Ala Arg Arg Lys Ala Tyr Asn 31 100 105 110 32 Gly Ser Arg Arg Asn Ile Phe Ser Arg Arg Ser Phe Asp Lys Arg Asn 33 115 120 125 34 Thr Glu Val Thr Glu Lys Pro Gly Ala Lys Met Phe Trp Asn Asn Phe 35 130 135 140 36 Leu Val Lys Met Asn Gly Ala Pro Gln Asn Thr Ser His Gly Ser Lys 37 145 150 155 160 38 Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln 39 165 170 175 40 Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 41 180 185 190 42 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 43 195 200 205			Ser	_	Ile	Leu	Leu	Val		Thr	Lys	Gly	Leu		GIu	Pro	HIS	IIe
27 65			_			_				1		- 1	_			a	m 1	3
Thr His Thr Asn Arg Lys Glu Pro Asp Met Asn Lys Val Lys Leu Phe 85 30			_	His	Gly	Asp	Phe	_	Leu	Val	Ala	Glu		Pne	Asp	ser	Thr	
29 85 90 95 30 Ser Thr Val Ala His Gly Asn Lys Ser Ala Arg Arg Lys Ala Tyr Asn 100 100 105 110 110 32 Gly Ser Arg Arg Arg Asn Ile Phe Ser Arg Arg Ser Phe Asp Lys Arg Asn 115 120 125 125 125 34 Thr Glu Val Thr Glu Lys Pro Gly Ala Lys Met Phe Trp Asn Asn Phe 130 135 140 140 140 36 Leu Val Lys Met Asn Gly Ala Pro Gln Asn Thr Ser His Gly Ser Lys 150 155 160 160 38 Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln 175 175 175 40 Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 180 185 190 42 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 195 200 205						_	_			_				_	77.1	.	.	
Ser Thr Val Ala His Gly Asn Lys Ser Ala Arg Arg Lys Ala Tyr Asn 100			Thr	His	Thr	Asn		Lys	Glu	Pro	Asp		Asn	Lys	Val	Lys		Pne
31						_			_	_	_		_	_	_			•
Gly Ser Arg Arg Asn Ile Phe Ser Arg Arg Ser Phe Asp Lys Arg Asn 115			Ser	Thr	Val		His	GLY	Asn	Lys		Ala	Arg	Arg	Lys		Tyr	Asn
115										_		_	_		_			-
Thr Glu Val Thr Glu Lys Pro Gly Ala Lys Met Phe Trp Asn Asn Phe 130 135 140 36 Leu Val Lys Met Asn Gly Ala Pro Gln Asn Thr Ser His Gly Ser Lys 145 150 155 160 38 Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln 165 170 175 40 Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 180 185 190 42 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 195 200 205			Gly	Ser	_	Arg	Asn	He	Phe		Arg	Arg	Ser	Pne		Lys	Arg	Asn
35				_			_ •	_	_			_		-1		_		7 .
36 Leu Val Lys Met Asn Gly Ala Pro Gln Asn Thr Ser His Gly Ser Lys 37 145 150 155 160 38 Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln 165 170 175 40 Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 180 185 190 42 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 43 195 200 205			Thr		Val	Thr	Glu	Lys		Gly	Ala	Lys	Met		Trp	Asn	Asn	Pne
37 145 150 155 160 38 Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln 39 165 170 175 40 Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 180 185 190 42 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 200 205				_						_		_	_,			a 1	~	_
Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln 165 170 175 Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 180 185 190 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 195 200 205				Val	Lys	Met	Asn		Ala	Pro	GIn	Asn		Ser	His	GTA	ser	
39 Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 41 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 43 175 175 175 186 187 188 189 180 180 180 180 180 180				_	_	_			_ •	_ •	_	_		_	_	-,	 1	
Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu 180 185 190 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 195 200 205			Ala	Gln	Glu	Ile		Lys	Glu	Ala	Cys		Thr	Leu	Pro	Phe		GIn
180 185 190 42 Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 43 195 200 205													_	_		_		_
Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg 195 200 205			Asn	Ile	Val		Glu	Asn	Cys	Asp		Met	Val	Ile	GIn		Asn	Leu
43 195 200 205								_						_	- 1			
10			Cys	Phe	_	Lys	Cys	Ile	Ser		His	Val	Pro	Asn		Gln	Asp	Arg
44 Arg Asn Thr Cys Ser His Cys Leu Pro Ser Lys Phe Thr Leu Asn His												_				_		
	44		Arg	Asn	Thr	Cys	Ser	His	Cys	Leu	Pro	Ser	Lys	Phe	Thr	Leu	Asn	HIS

RAW SEQUENCE LISTING

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62					ttccaccaga acacatacaa	300
63					aacagttgcc catggaaaca	360
64					tatttttcct cgccgttctt	420
65					caagatgttc tggaacaatt	480
66					tggcagtaaa gcacaggaaa	540
67					tattgtacat gaaaactgtg	600
68					catctctctc catgttccaa	660
69	atcagcaaga t	cgacgaaat a	cttgttcc	c attgcttgcc	gtccaaattt accctgaacc	720
70					ggttgtcatg atggtagagg	780
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75	ctctgttcca t	cagttgcaa ga	ataaaagg	c aatatttgtt	tgactttttt tctacaaaat	1080
76					ttaaggggta atgtaataat	1140
77					aatcagcagg tatgatttac	1200
78					gggttactgc ttctgggcaa	1260
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91	Pro Val Arg	Ile Pro Met	Cys Lys	Ser Met Pro	Trp Asn Met Thr Lys	
92	35		40		45	
93	Met Pro Asn	His Leu His		Thr Gln Ala	Asn Ala Ile Leu Ala	
94	50		55		60	
95	Ile Glu Gln	Phe Glu Gly	Leu Leu	Thr Thr Glu	Cys Ser Gln Asp Leu	

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98		ьeu	rne	rnc		85	AIG	ricc	111 '	114	90	110	CID		110	95	1110	
99		Cln	цiс	Clu	Pro		Lve	Dro	Cve .	[.ve		Val	Cvs	Glu	Ara	-	Ara	
100		GIII	1113	GIU	100		113	110	CID.	105		,	O _I S	014	110		5	
101		λ1=	. Glu	, Cv.	Glu		Tle	T.011	Tle			Arc	r Hic	Thr			Glu	
101		ATC	i Giy	115		FIO	116	пец	120	цуз	1 Y 1	HIG	, 1112	125		, 110	Olu	
102		Sar	· T.Δ1		L Cys	Glu	Glu	Leu		Va l	Tvr	Agr	Δra			Cvs	Tle	
103		361	130		ı Cys	Giu	GIU	135		vai	111	1121	140		, 441	. 0 / 2	110	
104		Sar			ı Ala	τlα	Val			Glu	Gln	Glt			Ser	· Met	Pro	
106		145		, 010	niu	110	150		val	014	011	155		пор	501		160	
107				Set	Met	Δsn			Asn	Glv	Asn			Ser	Glv	, Aro		
108		ust	, 1110		ricc	165		11511	11011	017	170		, 011	501	011	175		
100		Шic	. Cvs	T.17	. Cys			Met	Lvs	Δla			LVS	Thr	Tvr			
110		пта	, суз	у шуз	180		110	Mec	цуз	185		011			190		. 110	
111		λer	λer	. Тугт	Asn		Val	T۱۵	Δra			Va 1	T.v.s	Glu			Val	
112		ASI	i ASI.	195		1 Y 1	Val	110	200	hiu	цу	141	. .	205			, , , ,	
		T 176			, s Asp	λla	m h x	. 1 l s		Wa 1	Glu	Val	Twe			τ	T.v.c	
113 114		гуз	210		, кър	АТа	1111	215	116	Val	Giu	. • •	. дуз 220		. 110	. пс	ц	
		Cor			ı Val	λan	т10		Lvc	λen	Thr	. Wal			ጥህን	· Thr	Δen	
115 116		225		ьес	ı vaı	ASII	230		пуз	лэр	1111	235		пец	- 1 <u>7</u> 1	. 1111	240	
117				, Cv.	Leu	Cvc			T AU	Va 1	λla			Glu	ጥህተ	· T16		
		3e1	. Gry	Cys	ь пец	245		GIII	пец	val	250		1 010	. GIu	- Y -	255		
118 119		Mot	. Cla	, Trans	Glu			Glu	λνα	Thr			ı T.A.1	Ι Τ.Δ11	Va 1			
		мес	- GIA	TÄT	260		ьуз	Giu	AIG	265		шес	LLEU	ьец	270		. Oly	
120		Cor	. T.O.	. או	200 a Glu		Пrn	Ara	7 cn			λla	1.770	Lve			Δra	
$\begin{array}{c} 121 \\ 122 \end{array}$		sei	. Бес	275		цуз	112	AIG	280	Ary	пец	. AIC	шуз	285		. шус	nig	
123		TI XX	. Acr		Lys	Lou	λνα	- Ara		Δτα	T.vc	Ser	^ T.v.c			val	Δla	
$\begin{array}{c} 123 \\ 124 \end{array}$		1.7.1	290		т пуз	ьеи	лту	295	FIO	лту	цуз	DCI	300		110	, , ,	. mra	
125		Dro) Asn	Luc	λen		Δen	Sar	Δro	Glr			Ser	-		
126		305		FIC) ASII	цуз	310		ASII	JCI	n.y	315		9	001	•		
128 <	2105			10 - 4	1		310					J 1 .	,					
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134		-				_	-		-								tttta	
135																	actaa	
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146																	ittgcg	840
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190		145		- ,		·	150					155		-		-	160	
191			Ser	Ile	Gln	Asn			Ile	Ser	Asn		Ser	His	Phe	Ser	Ile	
192						165		· -	•		170					175		
193		Asp	Val	Leu	Thr		Ala	Asp	Gly	Val		Tyr	Ala	Asp	Leu	Val	Leu	
194					180	5		L	1	185	1	4 -		-	190			
195		Met	Ara	Glu		Asp	Ara	Glu	Ile		Pro	Thr	Tvr	Ile		Glu	Leu	
200			3	-14	~~		9						- 1 -				-	